

## **ABSTRACT**

A method and an apparatus for remotely and automatically monitoring for corrosion of a tank, pipe, or container with a gas or liquid environment using corrosion coupons that do not have to be removed from the environment for inspection and evaluation. The coupons are designed to fail when a specified level of corrosion occurs. A permanent magnet located on a coupon sensing system inside the corrosive environment is used to transmit the failure of the coupons outside the corrosion environment and across a wall or other boundary surface without requiring a power supply.